

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| | | |
|---|---|---|
| Applicant's or agent's file reference REG/G24436WO | FOR FURTHER ACTION <div style="float: right; font-size: small;">see Form PCT/ISA/220 as well as, where applicable, item 5 below.</div> | |
| International application No. PCT/GB2005/000365 | International filing date (day/month/year) 02/02/2005 | (Earliest) Priority Date (day/month/year) 02/02/2004 |
| Applicant AUXETICA LIMITED | | |

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☒ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 1

☐ as suggested by the applicant.

☒ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

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Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

The present invention is concerned with a tubular graft comprising a first auxetic tube (20D) defining an interior surface and an exterior surface, and having a non-auxetic tubular covering (20A) on at least one of the group consisting of: said exterior surface, and said interior surface. Also provided are methods of manufacture of same and methods of use of same.

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International Application No
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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61F2/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| X | US 6 368 355 B1 (UFLACKER RENAN) 9 April 2002 (2002-04-09) column 2, line 31 - line 67; figures 1A,1B,2A,2B,7A column 3, line 35 - column 4, line 45 column 5, line 7 - line 17 ----- | 1-5,9-11 |
| X | EP 0 893 107 A (FISCHELL, ROBERT E; FISCHELL, DAVID R; FISCHELL, TIM A) 27 January 1999 (1999-01-27) the whole document ----- | 1,2,6-9 |
| X | US 6 416 538 B1 (LEY TIMOTHY J ET AL) 9 July 2002 (2002-07-09) column 2, line 37 - line 42; figure 22 ----- | 1,2,6-9 |
| A | | 12 |
| | -/-- | |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

* & * document member of the same patent family

Date of the actual completion of the international search

4 May 2005

Date of mailing of the international search report

17/05/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| X | US 6 520 987 B1 (PLANTE SYLVAIN) 18 February 2003 (2003-02-18) column 2, line 65 - column 3, line 20; figures 5,6,8A,8B column 4, line 1 - line 3 | 1-4 |
| A | column 4, line 27 - line 29 ----- | 12 |
| X | WO 02/056795 A (INTRATHERAPEUTICS, INC) 25 July 2002 (2002-07-25) page 9, line 4 - page 11, line 31; figures 11,12 ----- | 1,2 |
| P,X | WO 2004/012785 A (HENGELMOLEN, RUDY) 12 February 2004 (2004-02-12) the whole document ----- | 1-12 |

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 13
because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|----|---------------------|--|--|
| US 6368355 | B1 | 09-04-2002 | US 6093203 A WO 9958084 A1 | 25-07-2000 18-11-1999 |
| EP 0893107 | A | 27-01-1999 | CA 2210516 A1 JP 11057015 A US 5695516 A EP 0893107 A1 | 15-01-1999 02-03-1999 09-12-1997 27-01-1999 |
| US 6416538 | B1 | 09-07-2002 | US 6013091 A US 2002151962 A1 CA 2303344 A1 EP 1027012 A1 JP 2001519204 T WO 9918888 A1 | 11-01-2000 17-10-2002 22-04-1999 16-08-2000 23-10-2001 22-04-1999 |
| US 6520987 | B1 | 18-02-2003 | AU 6084398 A WO 9837833 A1 CA 2201001 A1 | 18-09-1998 03-09-1998 25-08-1998 |
| WO 02056795 | A | 25-07-2002 | US 2001029397 A1 EP 1351625 A2 WO 02056795 A2 US 2003229391 A1 | 11-10-2001 15-10-2003 25-07-2002 11-12-2003 |
| WO 2004012785 | A | 12-02-2004 | AU 2003249001 A1 CA 2494702 A1 EP 1525012 A1 WO 2004012785 A1 GB 2393657 A | 23-02-2004 12-02-2004 27-04-2005 12-02-2004 07-04-2004 |